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-	27	deco-gustavo.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/31 18:44
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-	221	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 09:29
-	54	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:07
-	54	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:08
-	54	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time or temporal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:09
-	27	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:10
-	22	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:17
-	18	neural and pulse$1 and discrimination and maxim$4 and interactive$2 and electroencephalogram	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:13

-	10	neural and pulse$1 and discrimination and maxim$4 and interactive$2 and electroencephalogram and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:15
-	8	neural and pulse$1 and discrimination and maxim$4 and interactive$2 and electroencephalogram not gradient and optimi$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:16
-	0	(neural and pulse$1 and discrimination and maxim$4 and interactive$2 and electroencephalogram not gradient and optimi$6) and alopex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:16
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-	39	alopex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:25
-	7	alopex and probability	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:28
-	2	(alopex and probability) and classification	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:28
-	1	(neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogram not gradient and optimi$6) and classif$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:44
-	1	((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogram not gradient and optimi$6) and classif$7) and signal	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:44
-	0	(((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogram not gradient and optimi$6) and classif$7) and signal) and processor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:33
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-	1	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogra$2 not gradient and optimi$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:46
-	1	(neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogra$2 not gradient and optimi$6) and classif$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:44
-	1	((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogra$2 not gradient and optimi$6) and classif$7) and signal	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:45
-	1	(((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogra$2 not gradient and optimi$6) and classif$7) and signal) and computer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:45
-	1	neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and ((time adj span) or temporal) and end$3 and electroencephalogra$4 not gradient and optimi$6 and classif$7 and signal and computer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:46
-	39	(neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time or temporal)) and train$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:58
-	25	((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time or temporal)) and train$3) and span	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:58
-	284103	time adj (span or period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:07
-	11	(time adj (span or period)) and (((neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time or temporal)) and train$3) and span)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:08
-	20	(time adj (span or period)) and (neural and pulse$1 and discriminat$3 and maxim$4 and interactive$2 and neuron$1 and iterat$3 and (time or temporal))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:08
-	424	(finite adj element adj method) and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11
-	150	((finite adj element adj method) and gradient) and @pd<=19980825	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11

-	288	(finite adj element) same gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11
-	97	((finite adj element) same gradient) and @pd<=19980825	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:12
-	7	alopex and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:25
-	32	alopex not gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:26
-	16	alopex not alopex.as.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:39
-	21	(alopex not gradient) not (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:40
-	11	(alopex not gradient) and (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:40
-	15	(alopex not alopex.as.) not (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:41
-	0	((alopex not gradient) and (alopex adj ind)) and ((alopex not alopex.as.) not (alopex adj ind))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:41

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Neural Networks Proceedings, 1998. IEEE World Congress on Computational Intelligence. The 1998 IEEE International Joint Conference on , Volume: 2 , 4 May 1998
Pages:1147 - 1149 vol.2

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2 **Detection of multiple sclerosis with visual evoked potentials - an unsupervised computational intelligence system**
Dasey, T.J.; Micheli-Tzanakou, E.;
Information Technology in Biomedicine, IEEE Transactions on , Volume: 4 , Is 3 , Sept. 2000
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3 **A parallel implementation of the ALOPEX process**
Melissaratos, L.; Micheli-Tzanakou, E.;
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4 **A probabilistic approach to the alopex process using moment invari of images**
Chon, T.S.; Micheli-Tzanakou, E.;

Neural Networks, 1989. IJCNN., International Joint Conference on , 18-22 Jur 1989
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[Abstract] [PDF Full-Text (76 KB)] IEEE CNF

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5 **New algorithms for learning and pruning oblique decision trees**
Shah, S.; Sastry, P.S.;
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6 **Convergence of images in the ALOPEX process with moment invaria and probabilities**
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Engineering in Medicine and Biology Society, 1989. Images of the Twenty-Fir Century. Proceedings of the Annual International Conference of the IEEE Engineering in , 9-12 Nov. 1989
Pages:2048 - 2049 vol.6

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7 **The use of the ALOPEX process in extracting normal and abnormal v evoked potentials**
Wang, J.-Z.; Micheli-Tzanakou, E.;
Engineering in Medicine and Biology Magazine, IEEE , Volume: 9 , Issue: 1 , I 1990
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8 **Unsupervised global optimization: applications on classification of handwritten digits and visual evoked potentials**
Micheli-Tzanakou, E.; Dasey, T.J.;
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Pages:381 - 386 vol.1

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9 **Design and implementation of modular neural networks based on tl ALOPEX algorithm [face recognition application]**
Aleynikov, S.; Micheli-Tzanakou, E.;
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10 **Estimation of long-term vital status of patients after myocardial infarction using a neural network based on the Alopex algorithm**

Kostis, W.J.; Chebg Yi; Micheli-Tzanakou, E.;
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by Haugeland, John
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by Caudill, Maureen.; Butler, Charles
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Cambridge, Mass MIT Press, 1999.

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Totowa, NJ Humana Press, 1999.

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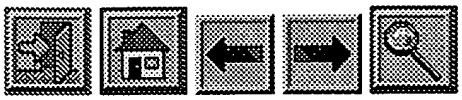

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Title
Combining structural and spectral information for **discrimination** using **pulse** coupled **neural** networks in multispectral and hyperspectral data.

Author(s)
Cooley-J-H; Cooley-T-W; Ed. by Stein-T-I.

Source
IGARSS'97. 1997 IEEE International Geoscience and Remote Sensing Symposium Proceedings. Remote Sensing - A Scientific Vision for Sustainable Development, vol.4, Singapore, 3-8 Aug. 1997.
Sponsors: IEEE Geosci. & Remote Sensing Soc., Centre for Remote Imaging, Sensing & Processing, Nat. Univ. Singapore, NASA, NOAA, Office of Naval Res., URSI.
In: p.1666-8 vol.4, 1997.

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ISBN: 0-7803-3836-7, CCCC: 0 7803 3836 7/97/ ($10.00).

Publication year
1997.

Language
EN.

Publication type
CPP Conference Paper.

Treatment codes
P Practical; T Theoretical or Mathematical.

Abstract
The emerging field of dynamic **neural** networks motivated by recent biological understanding of the way in which the brain encodes **discrimination** information in a **time** signal from a large, multi-layed image suggests an approach to fusing data. Pulsed coupled **neural** networks (PCNNs) have shown a robust ability to segment a single spectral band image into segments for terrain categorization but have not proven to be very robust in structural identification. However, linking fields of PCNNs can easily be configured for scale and/or rotation invariance. Using a variation on the Eckhorn 1990ù pulsing **neuron** model, a PCNN is constructed to reduce the structural information with the spectral information of a coarse resolution hyperspectral image. The configuration of the linking network is studied to try to yield meaningful pulsing signals that can be combined for enhanced segmentation or **discrimination.** (4 refs).

Descriptors
geophysical-signal-processing; geophysical-techniques; geophysics-computing; image-segmentation;

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Keywords

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A9365 (Data and information; acquisition, processing, storage and

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Yung-Sheng Hsiao; Childers, D.G.;
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Childers, D.G.; Chun-Fan Wong;
Biomedical Engineering, IEEE Transactions on ,Volume: 41 , Issue: 7 , July 1
Pages:663 - 671

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[Abstract] [PDF Full-Text (756KB)] IEEE JNL

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Prado, P.P.L.; Shiva, E.H.; Childers, D.G.;
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[Abstract] [PDF Full-Text (280KB)] IEEE CNF

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[Abstract] [PDF Full-Text (464KB)] IEEE CNF

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